SIJIVIC, R., dr.; PETKOVIC, M., dr.; MILENKOVIC, M. dr.; BENEDETO, Lj., dr.; IAZAREVIC, V., dr.

Clinical, radiologic and endocrino-metabolic signs in gastrecto-mized patients. Med. glas. 19 no.2/3:47-51 F-Mr 165.

1. Interno odeljenje Opste bolnice u Nisu (Sef: visi pred. prim. dr. M. Petkovic).

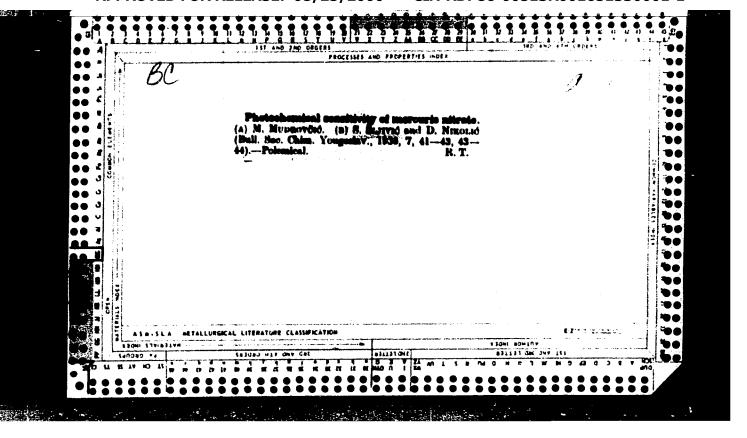
Car experience with working ability evaluation in diabetics.
Ned. glas. 18 no.3:84-87 Mr-Ap 164.

SLJIVIC, Radmila, dipl. hem.

Processing and use of Courtelle and similar fibers. Tekstil ind Beograd 12 no.12:677-678 '64.

1. Head, Branko Krsmanovic Laboratory of Woolen Fabrics, Paracin.

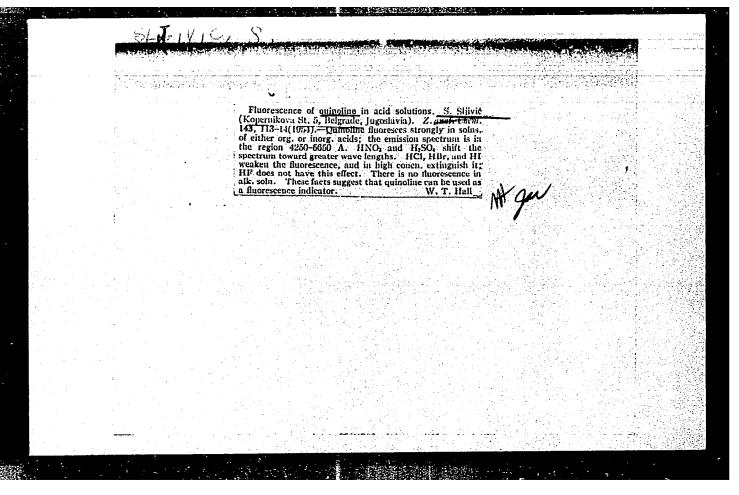
"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651330001-1

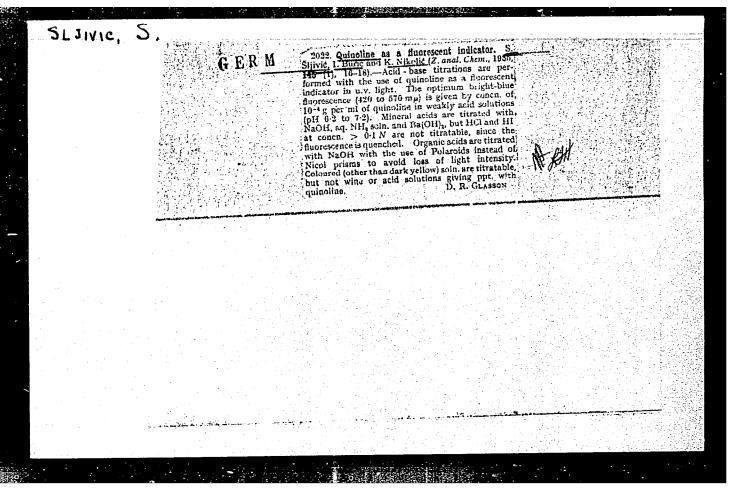


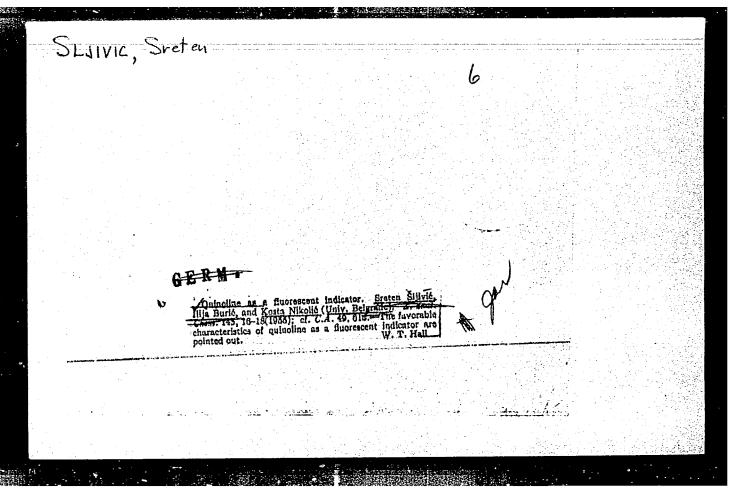
SLJIVIC, S. DIJIVIC, D. and ISBN POVIC, D.

"Fluorescence and Thermo-luminaucence of some of our Marble" p. 303 (ZBCRNIK RADOVA, Vol. 33, 1953, Beograd, Yugoslavia)

30: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954, Uncl.







SLJIVIC, Sreten

Fluorescence of methylquinolines in acid solutions, and their application as fluorescent indicators. Gl hem dr 23/24 no.5/6: 239-245 * 58/59. (EEAI 10:4)

Farmaceutiski fakultet, Institut za fiziku, Beograd.
 (Fluorescence) (Quinaldine) (Methylquinoline)
 (Absorption spectra)

SIMIC, Miroslav M.; SLJIVIC, Vojin S.; PETKOVIC, Milica Z.; KRAJINCANIC, Branka N.

Antibody rormation in X-irradiated rats protected with \$-mercapto-ethylamine and \$-aminoethylisothiouronium. Bul Inst Nucl 10: 149-161 Mr '60.

(X rays). (EEAI 10:5)

(Antigan and antibodies) (Radiobiology)

SLJIVIC, Vojin S.; SIMIC, Miroslav M.; PETKOVIC, Milica Z.; KRAJINCANIC,
Branka N.

Hemolysin formation in intact, splenectomized and X-irradiated rats.
Bul Inst Nucl 10:163-172 Mr *60. (EEAI 10:5)

(Hemolysis and hemolysins) (X rays)

(Spleen) (Radiobiology)

SIMIC, Miroslav M.; SLJIVIC, Vojin S.; PETKOVIC, Milica Z.: Technical assistance: ROSIC, Katja M.

Some analogues of pyrimidine and their effects on the formation of circulating bodies. Bul Inst Nucl 11:235-245 61.

1. Institute of Nuclear Sciences "Boris Kidrich", Department of Radiobiology, Vinca (for Simic and Sljivic). 2. Institute of Physiology, School of Pharmacy, University of Belgrade (for Petkovic).

SIMIC, Miroslav, M.; SLJIVIC, Vojin S.; Technical assistance: ROSIC, Katja M.

Role of time correlation between immunization and irradiation in the inhibition of the primary hemolysin response in rats. Bul Inst Nucl 11:255-274 61.

Bul Inst Nucl 11:255-274 161.

1. Institute of Muclear Sciences "Boris Kidrich," Department of Radiobiology, Vinca.

SLJIVIC, Vojin S.

Q-16-7-14-14

SURFACE (In caps); Given Name

Country: Yugoslavia

Academic Degrees: not given

Department of Radiobiology, Institute of Nuclear Sciences Affiliation:

Boris Kidrich"

Belgrade-Vintcha, Bulletin of the Institute of Nuclear Sciences Source:

"Boris Kidrich", Vol 11, Mar 1961, pp 247-254.

"Contribution to the Investigation of the Effects of X-Irradiation Data:

on Antibody Formation During the Secondary Immune Response.

Co-authors:

SIMIC, Miroslav M., Department of Radiobiology, Institute of Nuclear Sciences "Boris Kidrich",

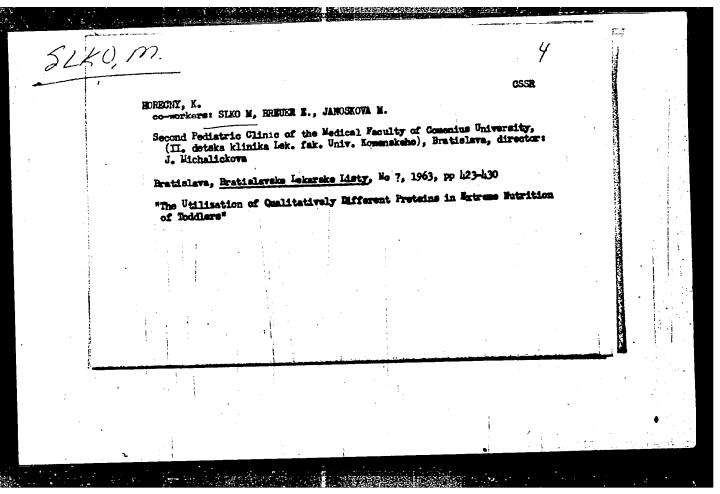
PETKOVIC, Milica Z., Institute of Physiology, School of Pharmacy, University of Belgrade,

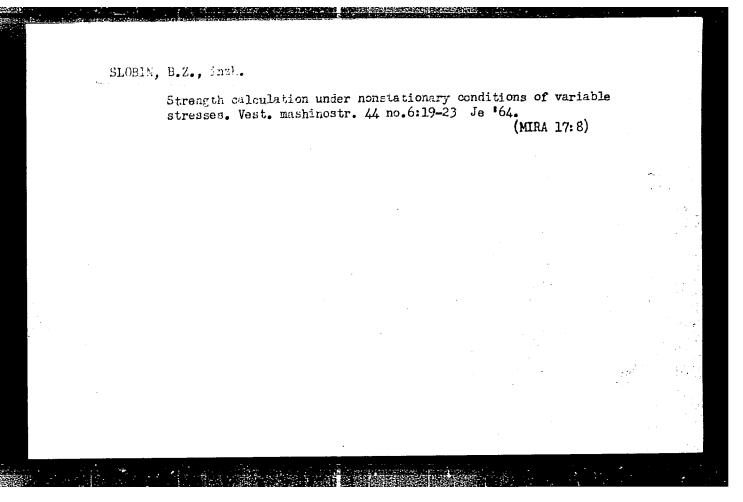
ROSIC, Katja M., Technical Assistant, Department of Radiobiology, Institute of Nuclear Sciences "Boris Kidrich".

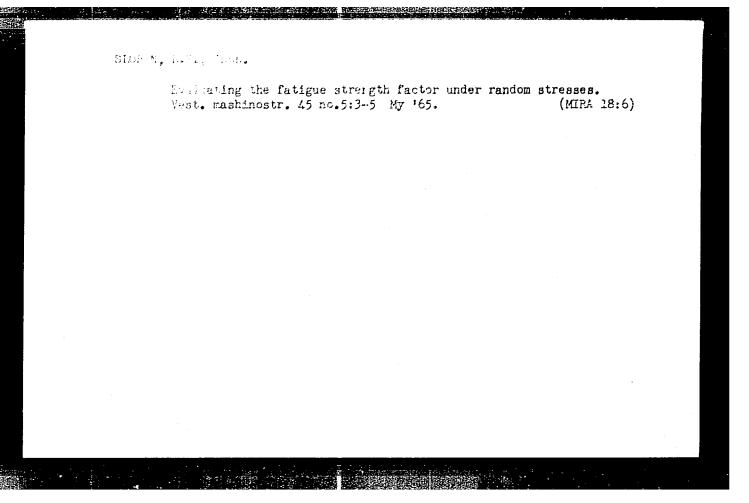
SIMIC, M.; CIRKOVIC, D.; MARINKOVIC, D.; SLJIVIC, V.

Incorporation of Na-formiates-C into bases of desoxyribonucleinic acid and ribonucleinic acid of the spleen cells in vitro after primary antigenic stimulation. Bul sc Youg 7 no.1/2:14 F-Ap '62.

1. Institut "B. Kidric," Vinca, Beograd.







L 31920-66 EWT(m)/I	(A) Booked collection
UTHOR: Fotokhina, Youslovich, Yo. Ya.; Ina, A. V.; Lykova	Rubinsteyn, E. I.; Ravkina, A. E.; Khanukova, E. S.; Slo- T. A.; Bychkova, V. A.
ilG: none	- 15 ls
	ic acid anhydrides as hardening agents for epoxy resins
SCURCE: Flasticheski	ye massy, no. 3, 1966, 54-57
TOPIC TAGS: epoxy pl	astic, hardening, solid mechanical property
ABSTRACT: The author hydrides as liquid ar were synthesized in a	rs studied the synthesis and use of alkenylauccinic acidens of alkenylauccinic acidens of an analysides of low-toxic hardening agents for apoxy resins. The anhydrides on electrically heated steel autoclave with a mixing device by it anhydride with monoclefins: R—CH—CH—CH—CH—CH—CH—CH—CH—CH—CH—CH—CH—CH—
	k d d
The following anhyar crotylsuccinic, 122-	ides were prepared; (acid, boiling point in C, at pressure in mm) 1408 were prepared; (acid, boiling point in C, at pressure in mm) 147, 8; pentenylsuccinic, 135-148, 8; Acadeconylsuccinic, 124-210,
	Ung: 678.64314215:678.043
Card 1/2	0,01

ļ	ACC NR: AP6007971 5; and a mixture of isocctonyl- and isononenylsuccinic (ASA), 155-169, 8. Epoxy											
resins ED- 73-93- and aniline or	5,5ED-6, 77-57 g triethan	and <u>EDL</u> /Wer of ASA over clamine as at 1000. Wi	e harde 100 g the soc th the	nond by AS of apoxy r elerators, exception	A at 14 esins r the ha	.OC for 2 eapectiversing raening mal stab	4 hr, u ely. Usi process Ility, v	aing 43-1 ing dim s was acc which was	ethyl- complish- 25-35C	٠		
lower, the	physicomo btsinod b	chanical proy the use of	copertie of malci	e of the p o mbysris	rosucts	obtaine	A resemi	piga aglà	01086-			
SUB CODE:	11,07/	SUBM DATE:	none/	ORIG REF:	004/	oth ref	1 003					
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RATH, R.; SLOBOCHOVA, Z.; PLACER.Z.; Technicka spolupraces HRADILOVA, L.; MUNCLINGEROVA, M.

Body water spaces. Relation of extracellular fluid to basal metabolism in obese patients. Cesk. gastroent. vyz. 17 no.8: 463-468 D*63

1. Ustaw pro vyzkum vyzivy v Praze; reditel prof. dr. J. Masek, DrSc.

BUIMOVICI, Elena; SLOBODA, Eva; DONA, D.

Comparative sensitivity of 5 cell cultures for the isolation of poliomyelitis viruses. Stud. cercet. inframicrobiol. 13 no.4; 463-472 '62.

(POLIOVIRUS) (VIRUS CULTIVATION) (TISSUE CULTURE)

RUMANIA

SLOBODA, Eva, MUIMOVICI, Elena and WEISER, G. of the "Dr I. Cantacuzino" Institute (Institutul "Dr I. Cantacuzino"), Poliomyelitis Section (Sectia Poliomielita).

"Epidemic Episodes of Febrile Catarrh of the Upper Respiratory Tract and Conjunctivitis Associated with Enteroviruses."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14, No 5, 1963, pp 603-618.

Abstract [Authors' English summary modified]: Describes two loci with 100 % morbidity in a children's community (1 to 3 year olds). In one of the foci, ECHO virus type 7 was isolated from the pharynx and feces of 55% of the children. In the second focus Coxsackie A9 virus alone or associated with ECHO virus was isolated from the pharynx and feces of 61% of the children tested. The second epidemic focus was characterized by complete absence of nervous symptomatology, possibly because of interference between the two viruses at the level of the central nervous system. Thus a possible enteroviral etiology should be considered for non-bacterial epidemic respiratory infections even if associated with conjunctivitis.

Includes 9 tables and 35 references, of which 5 Rumanian, 3 Russian, 3 German and 24 Western.

1/1

15

SLOBODA, Eva; BUIMOVICI-KLEIN, Elera; DAN, B.; avec la collaboration de: MANICATIDE, E.; GHEORGHE, Maria; DINCA, Geta

Enterovirus viremia and homologous serological conversion concomitant with non-enteroviral syndromes. (Preliminary note). Arch. Roum. path. exp. microbiol. 23 no.4:1061-1069 p. 164.

1. Institut "Dr. I. Cantacuzino", Service des Enterovirus (for Sloboda, Buimovici-Klein) et Clinique de Maladies Contagieuses No.1, Bucarest (for Dan). Submitted June 26, 1964.

SLOBODAN. B

YUGOSLAVIA/Cultivated Plants - Fruits. Berries.

М

Abs Jour

: Ref Zhur Biol., No 18, 1958, 82517

Author

: Bacic Slobodan

Inst Title

: Selection of a Place for Almond Planting.

Orig Pub

: Biljan proizv., 1957, 10, No 1, 47-58

Abstract

: The depth of the root system of almond plant in Yugoslavia reaches 5 meters with a diameter of up to 10 meters. Therefore, deep soil with water-permeable subsoil layer should be chosen for almond planting. The greatest amount of roots spreads to the depth of up to 70 centimeters. Calcareous soils contribute to the reduction in the disease indicence in the trees. On heavy, clayey soils, rich in nutrients, almond grows extremely vigorously but with a lowered yield. 300 kilograms of feeding soil to 1 square meter can be considered sufficient for almond cultivation. Rocky soil does not hinder the

Card 1/2

- 134 -

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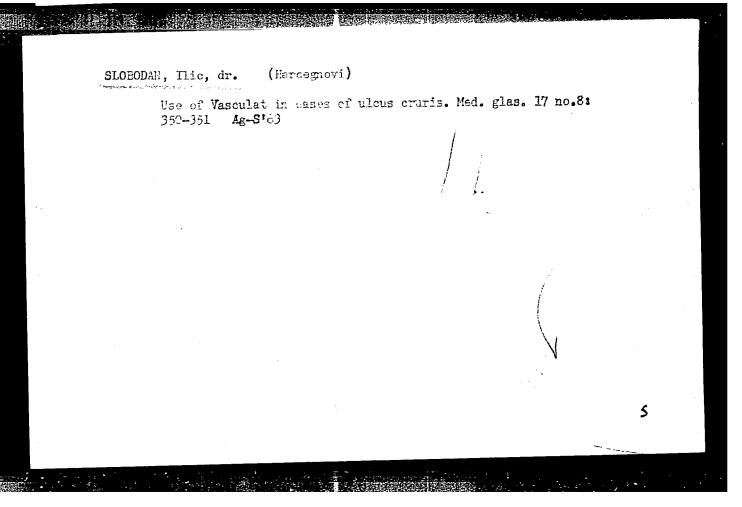
YUGOSLAVIA/Cultivated Plants - Fruits. Berries.

М

Abs Jour

: Ref Zhur Biol., No 18, 1958, 82517

development of the almond provided it contains and adequate amount of nutrients in the lower soil layer and is pervious to the roots of the trees. The deeply developing root system of almond trees permits to use for their cultivation plots of land which are not suitable for other agricultural crops. An evaluation of different kinds of nat ral soils in Yugoslavia for almond cultivation is given. — Ye.A. Parshina



Lucid (Stodonakka). Cyddijalse ple remeens certoriusa. (Controlling rust with chemical compoinds.)—Zasht. Bilja [Plant Prot., Beograd], 1932, 12, pp. 43-48, 2 pl., 1952. [English summary.]

In laboratory and field trials for the gontrol of brown rust [Puccinia triticina: cf. R.A.M., 32, p. 243] bu wheat at the Institute for Plant Protection, Beograd, 1 per cent. sulfinette [31, p. 355], 0·1 per cent. colloidal sulphur, and 0·15 per cent. duphar [31, p. 334 and below p. 293] were most effective when applied three times (before caring; after flowering; and before wax ripeness) under normal weather conditions, or more often in bad weather, the infection percentages being 0, 15, and 10, respectively, as against 100 for the untreated. No uredospore germination occurred after treatment with suffinette and none were found on the leaves after treatment. A very small, percentage of uredospores germinated after treatment with other two chemicals and only about 10 to 15 per cent. were found on the leaves. Ronleaux mixture (0.5, 1, and 2 per cent.) allowed 40 per cent. infection at all three concentrations [cf. below, p. 238].

SLOBODCHIKOV, A., starshiy leytenant.

Training device for shooting machine guns from armored carriers.

Voen. vest, 35 no.5:74-75 kg '55.

(Machine-gun drill and tactics)

GIBSHMAN, Ye.Ye., professor; SLOBODCHIKOV, A.Te., kandidat tekhnicheskikh nauk; FUSHTORSKIY, Ie..., redakter; OFOUREVA, M.A., redakter; PETROVSKATA, Ie., tekhnicheskiy redakter.

[Planning city bridges] Planirovka mestev v geredakh. Meskva, Isd-ve Ministerstva kommusal'mege khesiaistva RSFSR, 1955. 111pe (MIRA 8:6)

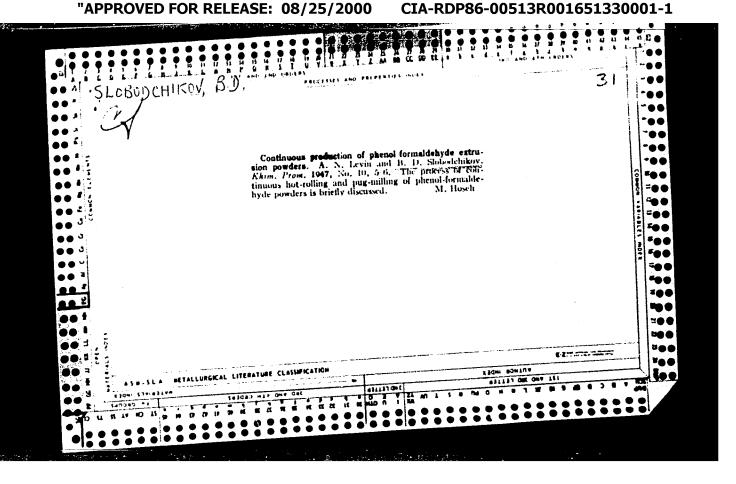
(Bridges—Design)

GIBSHMAN, Ye.Ye., prof.; SLOBODCHIKOV, A.Ya., dots.; GRONDA, V.I., red.

[Municipal engineering structures] Gorodskie inzhenernye sooruzheniia. Moskva, Rosvuzizdat, 1963. 72 p. (MIRA 17:6)

AFINASTYLV, I.M.; YMFMCIENKO, V.A.; MIGHLEV, V.L., Masl. departed nauki i tekaniki RSFSh, dektor tekhm. nauk, prof.; MEDNIKOV, I.A.; OTSTANIIKOVA, M.V.; SLOBODCHIKOV, A.Ya.; TYAZHELOV, H.M.; FEDOROV, Yu.P.; TSVEY, I.Yu.; DIRKOV, A.V., dektor tekhm.nauk, prof., retsenzent; FEDOROV, Yu P., kand. tekhm. nauk, nauchm. red.

[Introctural machanics in examples and problems] Stroitel-nais askhanika v primerakh i zadachakh. Moskva, Stroitzent, 1964. 341 Po. (MIRA 18:1)



LEVIN, A.N., kandidat tekhnicheskikh nauk; SLOBCECHIKOV, B.D., inshener

Continuous production of phenol-formaldehyde molding powders. Knim.
prom.no 10:289-290 0'4'?.

(Plastics industry)

TURSKIY, Yu.I.; SEMENOV, S.S.; SOKOLOV, A.D.; SLOBODCHIKOV, B.D.

Dephenolization of waste water in Mast European countries. Car. prom. no.2:54-56 F '58. (MIRA 11:2)

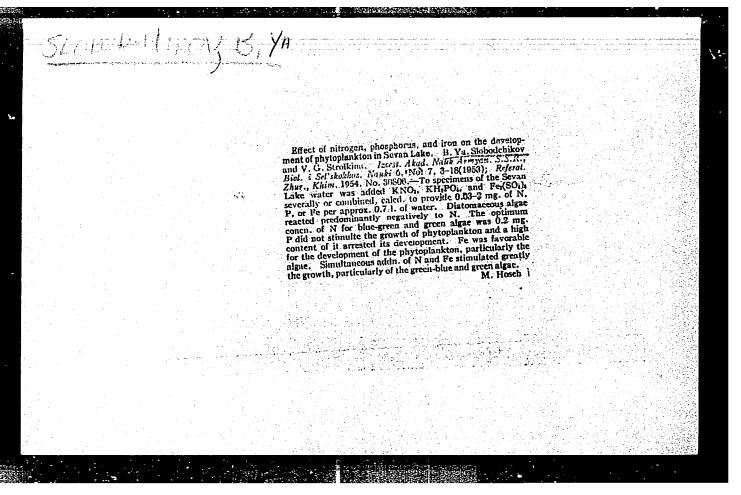
(Burope, Mastern--Sewage--Purification) (Phenols)

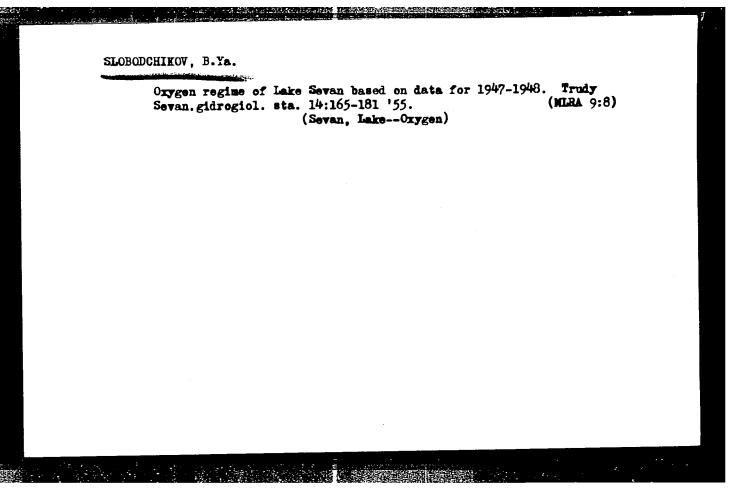
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SLOBODCHIKOV, B.Ya.

Hydrochemical conditions of Lake Sevan according to data for 1947-1948. Trudy Sevan.gidrobiol.sta. 12:5-28 '51. (MLRA 9:8) (Sevan, Lake--Water--Analysis)

SLOBODCHIKOV, B.Ya. Hydrochemical conditions beneath the ice of Lake Sevan during 1949 and its effect on fish culture. Trudy Sevan.gidrobiol.sta. 12: 141-146 '51. (Sevan, Lake-Water-Analysis) (Sevan, Lake-Fishes)





SLOBODCHIKOV, B. Ya.

Problem of nitrogen in waters of Lake Sevan. Trudy Sevan.gidregiol. sta. 14:183-195 '55. (NLRA 9:8) (Sevan, Lake--Nitrogen)

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Chemical composition of the basic invertebrate representatives of Lake Sevan. Izv. AN Arm. SSR. Biol. i sel'khoz. nauki 9 no. 12:123-125 D '56. (MLRA 10:2)

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(Sevan, Lake -- Invertebrates)

SLOBODOTIKOV, D.

Field Crops

Further wasy for raising crop yields. Kolkh.proizv. 12, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

Sair Destrict. 1.

Sair - Siberia

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Northern Provinces of Kazakhstan. Kolkh. proizv. No. 3, 1853.

SERGEYEV, A.; SLOBODCHIKOV, D.

Building mechanized grain-cleaning and drying barns. Sel'.
stroi. 9 no.2:12-14 Mr-Ap '54. (MIRA 13:2)

1. Nachal'nik Krasnoyarskogo krayevogo upravleniya po stroitel'stvu v kolkhozakh (for Sergeyev). 2. Zaveduyushchiy Idrinskim rayonnym otdelom po stroitel'stvu v kolkhozakh (for Slobodchikov).

(Orain-Drying) (Orain-Cleaning)

BARANOV, A.N.; YEGUNOV, K.I.; ZEL'TSMR, Ye.I.; LEBEDEV, N.N.; SLOBOD-CHIKOV, D.A.; CHEREMISIN, M.S.; SHLENSKIY, I.A., tekhnicheskiy redaktor

[Geodesy in tunnelling] Geodeziia v tonnelestroerii. Moskva, Izd-vo geodezicheskoi i kartograficheskoi lit-ry. Pt. 1 [Geodetic work on open surfaces] Geodezicheskie raboty na dnevnoi poverkhnosti. 1952. 503 p.[Microfilm]. (MIRA 8:7) (Geodesy) (Tunneling)

Participation of the second se

BULANOV, A.I.; IZMAYLOV, P.I.; PETROV, N.A.; TROITSKIY, B.V.; SLOBODCHIKOV, D.A., redaktor; LEVGHUK, G.P., redaktor; INOZEMTSEVA, A.I., redaktor, RUZ MIN, G.M., tekhnicheskiy redaktor.

[Topography] Topografiia. Pod obshchei red. D.A.Slobodchikova.

Moskva, Izd-vo geodezicheskoi lit-ry. Pt. 1. 1954. 539 p. [Microfilm]

(Topographical surveying) (MLRA 7:11)

BULANOV, Aleksandr Ivanovich; DANILOV, Vladimir Vladimirovich;

ZAKATOV, Petr Sergeyevich, prof.; IERWOLOV, Boris Pavlovich
[deceased]; PAVLOV, Vitaliy Fedorovich; TROITSKIY, Boris
Vladimirovich; SLOBODCHIKOV, D.A., red.; VASIL'YEVA, V.I.,
red.izd-va; ROMANOVA, V.V., tekhn.red.

[Geodesy] Geodeziia. Moskva, Izd-vo geodezicheskdi lit-ry.
Pt.l. 1962. 315 p. (MIRA 16:10)

(Geodesy)

YELENEV, A.V., inzhener; ZHUYKO, I.S., ekonomist; MUSHNIKOVA, K.S., agronom; NIKIFOROV, A.M., agronom; SAGALOVICH, Ye.N., agronom; SLOBODCHIKOV, D.D., agronom [deceased]; MOROZOV, D.N., redaktor [deceased]; HALLOO, A.I., tekhnicheskiy redaktor

[Agronomist's handbook and calendar] Kalendar'-sprayochnik agronoma. Hoskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 346 p. (MIRA 10:2) (Agriculture--Handbooks, manuals, etc.)

SLOBODCHIKOV, G.

Subject USSR/Engineering

Card 1/1

Authors Apurin, I. G. and Slobodchikof, G.

Title Partial Summary of Production Cost on the Oil Field of Malgobekneft' Trust

Periodical Neft. khoz., v. 32, #2, 64-65, F 1954

Abstract Brief reviews and analysis of the production cost

for the oil field of the Malgobekneft' are presented

AID P - 198

for 1952 and 53.

Institution: None

Submitted No date

SLOBODCHIKOV, G.T., inzh.; SPIRIDOVICH, N.F., inzh.; GOVOROV, V.P., inzh., neuchnyy red.; YEL'CHUKOV, V.S., red.; BERKUT, I.V., otv.ze vypusk

CONTRACTOR OF THE PROPERTY OF

[Program for the subject "Water supply and sewer systems" in the technical school major "Senitary installations in buildings," approved by the Ministry of Higher Education of the U.S.S.R., April 14, 1955. A 105-hour course] Programma predmeta "Vodo-snabzhenie i kanalizatsiia" k uchebnomu planu spetsial nosti tekhnikumov "Senitarno-tekhnicheskie ustroistva zdanii," utverzhdennomu Ministerstvom vysshego obrazovaniia SSSR, 14 aprelia 1955 g. Ob "em programmy - 105 chasov. Moskva, Uchebno-metodicheskii kabinet, 1958. 9 p. (MIRA 12:2)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Otdel uchebnykh zavedeniy upravleniya kadrov.

(Water-supply engineering)

SERGEYEV, L.; SLOBODCHIKOV, N. (Krasnoyarsk); L'VOV, M. (Stalino);
PETROSYANTS, Kh.; GOLOVENKOV, M.; INAKHOVETSKIY, M., (Kherson);
FINOGENOV, M., (Petrozavodsk)

Everyday work. Grazhd. av. 17 no.12:17-19 D '60. (MIRA 1443)

(Aeronautics, Commercial) (Flight crews)

SLOBODCHIKOV, PI.

ATAULIN, V.V.; VLASOVA, R.M.; DAVYDOVA, Ye.A.; DANILENKO, I.S.; LZIOV, V.A.;

DUBROVIN, A.P.; YEFANOVA, L.V.; KARPENKO, L.V.; KLEPIKOV, L.N.;

KOTHELEV, S.V.; LUK'YANOV, N.I.; MEL'NIKOV, N.V., prof., obshchiy

red.; MKRTYCHAN, A.A.; NEMTINOV, A.M.; POGOSYANTS, V.K.; SEMIZ,

M.D.; SKOBLO, G.I.; SLOBODCHIKOV, P.I.; SMIRNOV, V.M.; SUSHCHENKO,

A.A.; SOKOLOVSKIY, M.M.; TRET'YAKOV, K.M.; FISH, Ye.A.; TSOY, A.G.;

TSYPKIN, V.S.; CHEKHOVSKOY, P.A.; CHIZHIKOV, V.I.; ZHUKOV, V.V.,

red.izd-va; KOROVENKOVA, Z.L., tekhn.red.; PROZOROVSKAYA, V.L.,

tekhm.red.

[Prospects for the open-pit mining of coal in the U.S.S.R.; studies and analysis of mining and geological conditions and technical and economic indices for open-pit mining of coal deposits] Perspektivy otkrytoi dobychi uglia v SSSR; issledovanie i analiz gornogeologicheskikh uslovii i tekhniko-ekonomicheskikh pokazatelei otkrytoi razrabotki ugol'nykh mestorozhdenii. Pod obshchei red. N.V.Mel'nikova. Moskva, Ugletekhizdat, 1958. 553 p. (MIRA 11:12)

1. Vsesoyuzwyy tsentral'nyy gosudarstvennyy proyektnyy institut "Tsentrogiproshakht." 2. Chlen-korrespondent AN SSSR (for Mel!-mikov).

(Coal mines and mining)

SKOBLO, G.I., gornyy inzh.; SLOBODCHIKOV, P.I., gornyy inzh.

Annual rate of strip-mining operations. Gor. zhur. no.9:14-16 S '62. (MIRA 15:9)

1. Vsesoyusnyy tsentral'nyy gosudarstvennyy institut po proyektirovaniyu i tekhniko-ekonomicheskim obosnovaniyam razvitiya ugol'noy promyshlennosti, Moskva. (Krasnoyarsk Territory-Strip mining-Cold weather operations)

SLOBODCHIKOV, S. V.: Master Phys-Math Sci (diss) -- "The electrical properties of aluminum arsenide". Leningrad, 1958. 5 pp (Acad Sci USSR, Phys-Tech Inst), 150 copies (KL, No 6, 1959, 125)

AUTHORS:

Nasledov, D. N., Slobodchikov, S. V.

57-28-4-5/39

TITLE:

An Investigation of the Electric and Thermoelectric Properties of AlSb. (Issledovaniye elektricheskikh i termoelektricheskikh

svoystv AlSb.)

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 4, pp. 715-724

(USSR)

ABSTRACT:

The electric and thermoelectric properties of AlSb wer investigated here. The latter pertains to that class of seminonductors which form a link between the elements of the 3rd and 5th group. On the basis of the investigations the following could be determined: 1.) The dependence of the electric conductivity and the Hall constant on temperature was examined in the range from 78 to 1200°K and the temperature dependence of the thermoelectric force in the range from 140 to 1250°K. In agreement with other references (1 to 3) the width of the forbidden zone determined from the temperature dependence of the electric conductivity amounted to 1,57 eV. 2.) By the measurement of the thermoelectric force an admixture-level was determined at 0,77 eV. 3.) The mobility of the holes at

Card 1/3

An Investigation of the Electric and Thermoelectric Properties 57-28-4-5/39 of AlSb.

room temperature was 150-240 $\frac{\text{cm}^2}{\text{V.sek}}$. The ratio of the mobility of the holes to that of the electrons seems to be near unity. 4.) In all investigated samples from about 250 K and more the mobility follows the law

u = aT. In the entire temperature range the mobility changes according to the law

 $\frac{1}{u}$ = aT $^{-3/2}$ + bT $^{-3/2}$. 5.) According to the measurement data of the thermoelectric force the position of the Fermi-level in a wide temperature range was computed. 6.) The effective mass of the holes was evaluated by means of the formula by Pisarenko. In the range from 400 to 700 K the mean value of it was (0.9 ± 0.1) m₀. (m₀ denotes the mass of the free electron). For the values of a and b a table is given. The samples were placed at the authors' disposal by D.A. Petrov and M.S. Mirgalovskaya. There are 10 figures, 1 table, and 6 references, 1 of which is Soviet.

Card 2/3

NASLEDOV, D.N.; SLOBODCHIKOV, S.V.

Blectric properties of n-type AlSb. Fiz.tver.tela 1 no.5:748-754

My 159.

Mira 12:4)

1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR.

(Aluminum antimonide-Electric properties)

S/181/62/004/005/022/055 B125/B108 37933 26,2420

9.4177

Mikhaylova, M. P., Nasledov, D. N., and Slobodchikov, S. V.

Photomagnetic effect and photoconductivity in InP AUTHORS:

Fizika tverdogo tela, v. 4, no. 5, 1962, 1227-1232 TITLE:

TEXT: The photomagnetic effect and the photoconductivity of n-type InP are investigated at 100-300° K for carrier concentrations of n=8.4.10¹⁶ to 2.10 17 cm -3 at 300 K. The photoelectromotive force at 300 K up to ~8000 oe increases linearly with the magnetic field strength. The photomagnetically induced photoelectromotive force of an electron semiconductor with impurities is $V_{pm} = I_0 \frac{HL(1/tn_1)}{L}$ with $L = \sqrt{DT}_{pm}$. The photoconductivity is then $V_{pc} = I_0 E I_{pc}$ (1/tn₁). 1 and t denote length and thickness of the sample, D is the diffusion constant. The

lifetimes in and pe are to be determined from photomagnetic effect and photoconductivity, respectively. The photoelectromotive force decreases with decreasing temperature. At the same time, photoconductivity increases

Card 1/2

Photomagnetic effect and ...

\$/181/62/004/005/022/055 B125/B108

by more than ten times. It decreases at modulation frequencies of \approx 100 cycles. The electron lifetime at 300°K is 1.7.10⁻³-2.2.10⁻³ that of the minority carriers is $2 \cdot 10^{-6} - 2.5 \cdot 10^{-7}$ sec. The diffusion length of the holes increases with increasing temperature. This temperature dependence is caused by the decrease of the hole lifetime with decreasing temperature. The electron lifetime increases with subsiding temperature. There are 5 figures. The most important English-language reference is: C. Hilsum, B. Holeman. Proceedings International Conference on Semiconductor Physics. Prague, 1960.

ABSOCIATION: Fiziko-tekhnicheskiy institut imeni A. F. Ioffe AN SSSR Leningrad (Physicotechnical Institute imeni A. F. Ioffe

AS USSR, Leningrad)

SUBMITTED:

December 26, 1961

Ourd 2/2

NASIEDOV, D.N.; SLOBODCHIKOV, S.V.

Photoconductivity in GaP. Fig. tver. tela 4 no.11:3161-3164

Photoconductivity in GaP. Fig. tver. tela 4 no.11:3161-3164 N '62. (MIRA 15:12)

AGAYEV, Ya.; DLOBOBERHNOV, S.V.

Fhotoelectric properties of InP. Izv. AN Turk. SSR.Ser. fiz.-tekh., khim. i geol.nauk no.6:109-110 '63. (MIRA 18:1)

1. Fiziko tekhnicheskiy institut AN Turkmenskoy SSR.

MIKHAYLOVA, M.P.; NASLEDOV, D.N.; SLOBODCHIKOV, S.V.

Temperature dependence of current carriers lifetime in indium arsenide. Fiz. tver. tela 5 no.8:2317-2323 Ag '63. (MIRA 16:9)

1. Fiziko-tekhnicheskiy institut im. A.F.Ioffe AN SSSR, Leningrad. (Indium arsenide-Electric properties)

VORONKOVA, N.M.; NASLEDOV, D.N.; SLOBODCHIKOV, S.V.

Photoelectric properties of gallium arsenide. Fiz. tver. tela 5 no.11:3259-3263 N '63. (MIRA 16:12)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR, Leningrad.

ACCESSION NR: AP4033415

5/0202/64/000/001/0013/0016

AUTHORS: Agayev, Ya.; Mikhaylova, M. P.; Slobodchikov, S. V.

TITLE: Photomagnetic properties of p-InAs

SOURCE: AN TurkmSSR. Izvestiya. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 1, 1964, 13-16

TOPIC TAGS: photomagnetic effect, p indium arsenate, diffusion length, step up transformer, preamplifier, amplifier 28IM, voltage analyzer AN 1 50, monochromator ZFR 2, globar lamp, sodium chloride

ABSTRACT: The spectral distribution of photomagnetic effect in p-InAs was studied experimentally at various temperatures. From the data obtained, estimates were made of the diffusion length for migration in n- and p-type InAs in the temperature range of 80-300K. The method used for the photomagnetic measurement was the one used by N. P. Mikhaylova, D. N. Nasledov, and S. V. Slobodchikov (FTT, t.5, vy*p. 8, 2317, 1963; FTT, t.IV, vy*p.5, 1962). The signal was fed into the step-up transformer of the preamplifier and then into a measuring amplifier 28 IM and a voltage analyzer AN-1-50. The specimen was placed in a glass cryostat with a sapphire window. It was possible to vary the magnetic field from 0 to 8000

Card 1/2

ACCESSION NR: AP4037554

s/0202/64/000/002/0003/0007

AUTHOR: Agayev, Ya.; Voronkova, N. M.; Slobodchikov, S. V.

TITLE: Photomagnetic effect in p-type GaAs

SOURCE: AN TurkmSSR. Izv. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 2, 1964, 3-7

'TOPIC TAGS: photomagnetic effect, gallium arsenide, semiconductor, energy converter, current carrier lifetime, carrier lifetime computation

ABSTRACT: Photomagnetic effect in p-type GaAs was studied in a temperature range from 80 to 300K as a function of radiation and magnetic field intensities. The specimens had a concentration range from 10¹³ to 10¹⁷ cm⁻³ and were obtained by zone melting with and without iron doping. The incident illumination provided by a 500-watt tungsten lamp was modulated by a rotating chopper and filtered to pass the 600-800µ band. The magnetic field varied up

Card 1/3

ACCESSION NR: AP4037554

to 10 Koe and the temperature function was plotted at 8 Koe. The photomagnetic effect was observed in specimens having concentration below 10⁵ cm⁻³. The temperature function of a short-circuit photomagnetic current has an "S" shape and varies by more than an order of magnitude from 80 to 300K, which is at variance with Hurd's results (Proc. Phys. Soc. v. 79, 507, 1962). The d-c component of the illumination exerts an influence on the photomagnetic effect only at low temperatures. The photomagnetic effect as a function of incident radiation and magnetic field intensities was found to be linear in both cases. It is concluded that the magnitudes of experimental variables were confined within the limitantions of the small-signal approximation which, consequently, could be used to compute the lifetime of minority carriers. Orig. art. has: 4 figures, 4 formulas, and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR (Technical Physics Institute, AN Turkmen SSR)

Card 2/3

L 19774-65 - EWT(1)/EWD(k)/EWT(m)/EEC(t)/EWP(t)/EWP(b) Pg-6 IJP(c)/SSD/SSD(c)/ AFWL/ASD(a)-5/AS(mp)-2/ESD(gs)/FSD(t) JD/AT S/0181/64/006/006/1781/1785 ACCESSION NR: AP4039669 AUTHORS: Nasledov D. N.; Kalyuzhnaya, G. A.; Slobodchikov, S. V. TITLE: Investigation of the electrical and photoelectrical properties of n type GaP SOURCE. Fizika tverdogo tela, v. 6, no. 6, 1964, 1781-1785 TOPIC TAGS: electric property, photoelectric property, gallium phosphide, semiconductor, Hell effect, conductivity, photoconductivity, impurity level, recombination center ABSTRACT: The authors have investigated the Hall effect, conductivity, and photoconductivity of n-type OaP at various stages of compensation. The tests were made in the temperature interval 80-295%. Electron concentration increased about a thousandfold in this interval, but electrical conductivity increased much less (about a hundredfold). The Hall mobility of these samples (n = 7.1014-2.1016 cm-3) had a value of 25-40 cm2/v sec at room temperature. Rather high photoconductivity was observed in the near infrared region, the impurity photoconductivity being Card 1/2

L 19374-65 ACCESSION NR: AP4039669 of the same order as intrinsic conductivity or even greater. The principal impurity levels were found to lie at 0.9 (\(\chi_{\text{max}} = 1.2 \text{ U) and at 1.5 (\(\Lambda_{\text{max}}\) ev below the base of the conduction band. At low temperatures the number of recombination centers was so large that supplementary illumination did not appreciably change the recombination rate. At high temperatures, however, shortperiod illumination retarded the downward shift of the Fermi quasilevel and brought about an increase in number of recombination centers at any given temperature. This illumination effect may be explained by the production of new recombination centers with smaller capture cross sections. In this process the effective lifetime is increased and the current short-circuited. "In conclusion, the authors

figures. ASSOCIATION: Fiziko-tekhracheskiy institut im. A. F. Toffe AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR)

express their thanks to N. A. Goryunova and her co-workers for supplying samples of GaP; they also thank R. F. Mamedova for help in the work." Orig. art. has: 7

SUBMITTED: 09Jan64

ENCL. 00 OTHER: 001

SUB CODE: SS, EM Card 2/2

NO REF SOV: 002

s/0181/64/006/007/2175/2176

ACCESSION NR: AP4041725

AUTHOR: Slobodchikov, S. V.

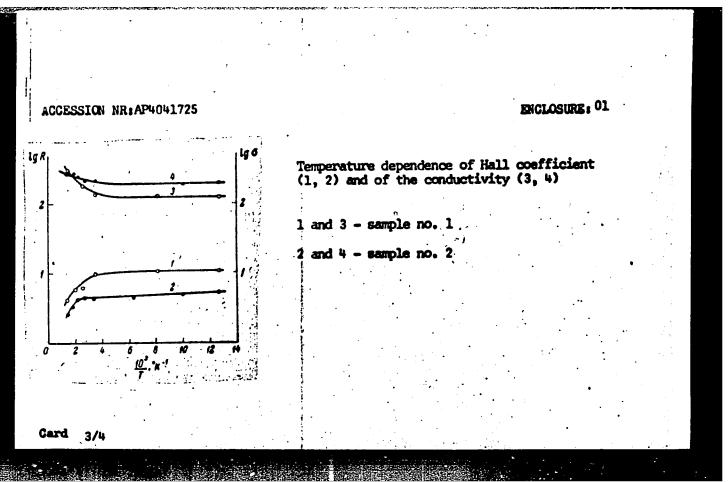
TITLE: Thermal emf in InP

SOURCE: Fizika tverdogo tela, v. 6, no. 7, 1964, 2175-2176

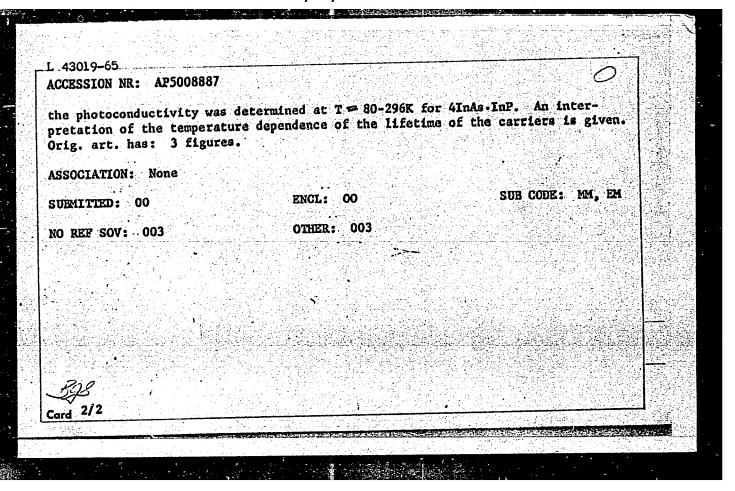
TOPIC TAGS: thermal emf, indium phosphide, Hall effect, conductivity, temperature dependence, carrier density

ABSTRACT: The thermal emf was measured in samples of electronic indium phosphide at 100--800K, simultaneously with a study of the temperature dependence of the Hall effect and of the conductivity. Two samples with carrier densities 8 x 10¹⁷ and 2 x 10¹⁸ cm⁻³ at room temperature were used. The thermal emf was determined with a procedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobodchiprocedure described previously (D. N. Nasledov and S. V. Slobo

Card 1/4



AUTHOR: Agayev, Ya.; Slobodchikov, S. V. TITLE: Photoelectric properties of certain alloys of the type xInAs-yInP SOURCE: AN TurkmSSR. Izvestiya. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 1, 1965, 14-16 TOPIC TAGS: indium alloy, indium arsenide, indium phosphide, alloy conductivity, alloy photoelectric property, alloy photomagnetism, charge carrier lifetime ABSTRACT: The authors investigated the photoconductivity and photomagnetic effect in the ternary system xInAs-yInP in order to establish the laws governing the change in spectral characteristics and determine the lifetimes of the electrons and holes and their temperature dependence. Polycrystalline samples of the two n-type alloys 9InAs-InP and 4InAs-InP were used in the measurements. The photoconductivity maxima at 80K and the forbidden gap width were determined, and it was concluded that the optical thickness of the gap changed in linear fashion with	
SOURCE: AN TurkmSSR. Izvestiya. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 1, 1965, 14-16 TOPIC TAGS: indium alloy, indium arsenide, indium phosphide, alloy conductivity, alloy photoelectric property, alloy photomagnetism, charge carrier lifetime ABSTRACT: The authors investigated the photoconductivity and photomagnetic effect in the ternary system xInAs-yInP in order to establish the laws governing the change in spectral characteristics and determine the lifetimes of the electrons and holes and their temperature dependence. Polycrystalline samples of the two n-type alloys 9InAs-InP and 4InAs-InP were used in the measurements. The photoconductivity maxima at 80K and the forbidden gap width were determined, and it was concluded that the optical thickness of the gap changed in linear fashion with	
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In the ternary system xInAs-yInP in order to establish the laws governing the change in spectral characteristics and determine the lifetimes of the electrons and holes and their temperature dependence. Polycrystalline samples of the two in-type alloys 9InAs.InP and 4InAs.InP were used in the measurements. The photoconductivity maxima at 80K and the forbidden gap width were determined, and it was concluded that the optical thickness of the gap changed in linear fashion with	
concluded that the optical thickness of the gap changed in linear rashion will	
the composition (InAs-InP). The combined measurement of the photoconductivity and photomagnetic effect made it possible to calculate the lifetime of the major carriers, \mathcal{I}_{L} , and that of minor carriers, \mathcal{I}_{L} . The temperature dependence of	
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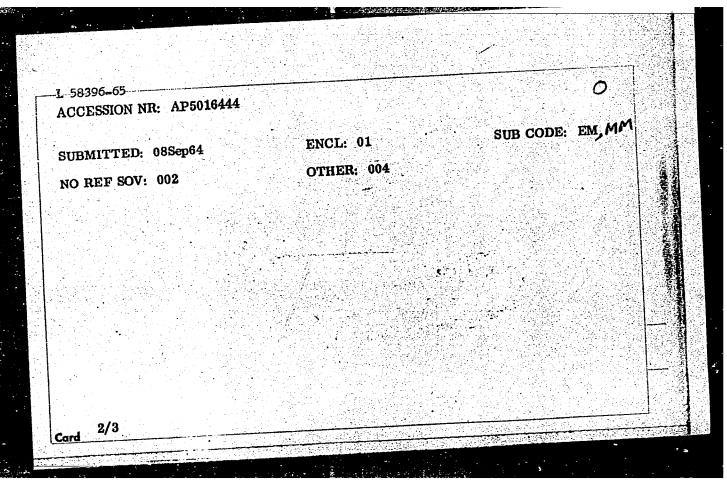


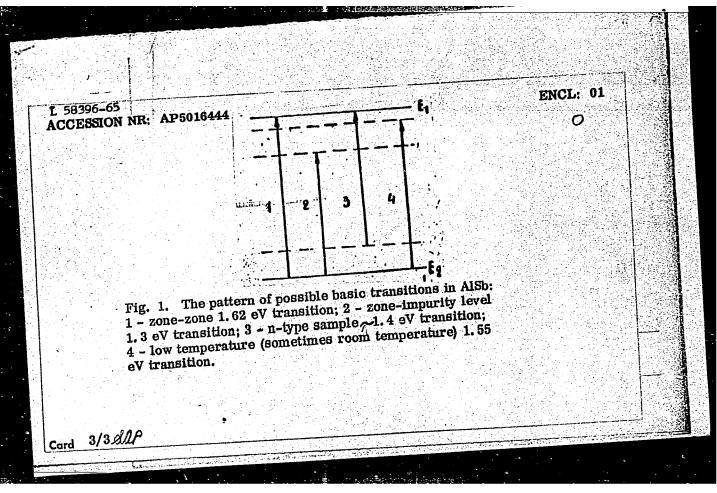
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UTHOR: Agayev, Ya.; Gazakov,	.; Slobodchikov, S. V.	22 21	
ITLE: Photoelectric properties	of aluminum antimonide		
OURCE: AN TurkmSSR. Izvestiya himicheskikh i geologicheskikh	Seriya fiziko-tekhniches nauk, no. 2, 1965, 23-28	kikh,	
OPIC TAGS: aluminum compound, hotosensitivity, temperature de hotoconductivity, light intens	pendence, photoresponse,	illumination.	
BSTRACT: The object of the indistribution of photosensitivity hotoresponse, the effect of conspendence of photoconductivity luminum antimonide alloyed with	, temperature dependence stant illumination, and to on light intensity. Samp	of the ne les were	
-type with low conductivity (a oncentration of the current care emperature was $\approx 10^{13}$ -1014 cm	gma $\approx 4 \cdot 10^{-5} - 10^{-4}$ ohm-1 cr	m ⁻¹).	
.04 cm3. A type ZMR-2 mirror	monochromator" with a gla	ss prism was	

L 52337-65 ACCESSION NR: AP5011796 used as a source of monochromatic light. In many compensated semiconductor compounds with a wide forbidden band there is often observed an additional photoconductivity which exceeds the true photoconductivity. However, for low resistance uncompensated aluminum antimonide tested at room temperature, the true photoconductivity was predominant. The width of the forbidden band, evaluated for λ_1 , was 1.6 ev. Variation of the photoresponse with temperature was measured over the interval $80\text{--}100^{\circ}\text{K}$. The light source was an incandescent tungsten lamp. An FS-7 filter was used to give only the short wave part of the light. Measurements were also made with white light. Strength of the electrical field was approximately 120 v/cm.
A sublinear relationship with a slope of approximately 0.7 was determined between the current and the intensity of the white light falling on the sample. Orig. art. has: 6 figures. ASSOCIATION: Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR (Physicotechnical Institute of the Academy of Sciences, Turkmen SSR) MM. EM ENCL: 00 05May64 SUBMITTED: 004 OTHER: NR REF SOV: 002 Card 2/2718

EWT(1)/EWT(m)/EEC(t)/EWP(t)/EWP(b) Pz-6 JD/AT IJP(c) L 58396-65 UR/0202/65/000/003/0096/0097 ACCESSION NR: AP5016444 28 B AUTHOR: Agayev, Ya.; Gazakov, O.; Slobodchikov, S.V. TITLE: Photoconductivity in p-type Al-Sb SOURCE: AN TurkmSSR. Izvestiya. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 3, 1965, 96-97 TOPIC TAGS: alloy photoconductivity, zonal transition diagram, photoconductivity admixture effect, aluminum alloy, antimony alloy ABSTRACT: In a previous communication, the authors discussed the photoconductivity of high-resistance samples of compensated n-type A1Sb (Izvestiya AN TSSR, ser. FTKhiGN, no. 2, 1965). The present short communication investigates the photoconductivity of low-resistance p-type AlSb samples, establishes the general pattern of the zonal transitions (see Fig. 1 of the Enclosure), and discusses the role of admixtures in photoconductivity effects. Orig. art. has: 2 figures. ASSOCIATION: Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR (Physics and Engingineering Institute, AN Turkmen SSR 1/3 Card

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ACCESSION NR: AP5010761 theoretically, This was place at microinhomogeneit lowers the electric field	attributed to the fi ies in the region (. Orig. art. has!	ield emission taking of the space charge which 2 formulas and 1 figure. [CS]
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	The Contract of the contract o
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	AUTHORS: Goryunova, N. A.; Kesamanly, F. P.; Rastess, Negreskul, V. V.; Rud', Yu. V.; Slobodchikov. S. V.
	TITLE: Electric and photoelectric properties of ZnSiP ₂
	SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1312-1314 TOPIC TAGS: zinc compound, electric conductivity, temperature dependence, photoconductivity, spectral distribution, electric field dependence
	ABSTRICT: Most published data on ZnSiP ₂ pertain to its physico-chemical properties only. The authors measured the temperature dependence of the electric conductivity and of the Hall constant of pendence of the temperature interval 80—670K, and the spectral disn-znSiP ₂ in the temperature interval 80—670K, and the spectral distribution of the photoconductivity and its dependence on the electric tribution of the photoconductivity and its dependence (80—290K).
	field, the intensity of according to the condition of the

The crystals were grown by a method devised by one (Rud', with E. O. Osmanov, Registration Certification 1963). The samples had a surface of natural and their regular form was attained by grinding. In an electron density $\sim (1-2) \times 10^{17}$ cm ⁻³ at room te hall mobility $\sim 70-100$ cm ² /V-sec. The results are of the Enclosure. They are briefly analyzed from the possible impurity level scheme and possible of the possible impurity level scheme and possible the temperature dependence of the width of the for found to have a constant $\alpha = -(7-8) \times 10^{-4}$ eV/°K.	al brilliance, The crystals I mperature and shown in Fig the point of main transit bidden band i It is noted	had a . 1 view ions.	
found to have a constant $\alpha = -(7-8) \times 10^{-6}$ kg. found to have a constant $\alpha = -(7-8) \times 10^{-6}$ kg. found to have a constant $\alpha = -(7-8) \times 10^{-6}$ kg. found to have a sepecially effective at low tenders of the photoconductivity is of several minutes and decreases with rising temperate 2 figures. SSOCIATION: Fiziko-tektnicheskly institut im. A. F. Ioffe technical Institute, AN SSSR)	meratures, Wi the order Of ture. Orig. ar	en . heer [02]	

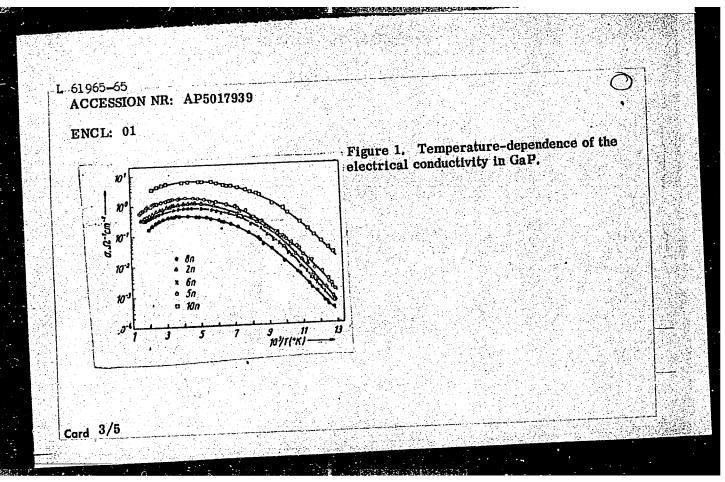
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CCESSION NR: AP501461			54	
UTHOR: Nasledov, D. N	.; Negreskul, V. V.; Si	Lobodchikov, S. V.	53	
	properties of gallium to tela, v. 7, no. 6, 19	<i> </i>	h tellurium	
OPIC TAGS: gallium co arrier density, electr lectric conductivity	empound, tellurium cont con scattering, tempera	aining alloy, carrie ture dependence, Hal	r scattering, 1 coefficient,	
ethod proposed earlier The quantities measured the temperature dependen	um-doped Gap crystals at c (G. Wolff et al., Bul d were the Hall coeffic ence of these quantitie determined from the a	ient, the electric (s and of the electric (nalvais of the data	conductivity, and on mobility. The was found to be	
oll ev. The maximum of a sample with carr	nobility at room temper ler 2 x 10 ¹⁶ cm ⁻³ . Inc ag impurities reduce th overned by many still u	reased doping with a	tellurium and the	a
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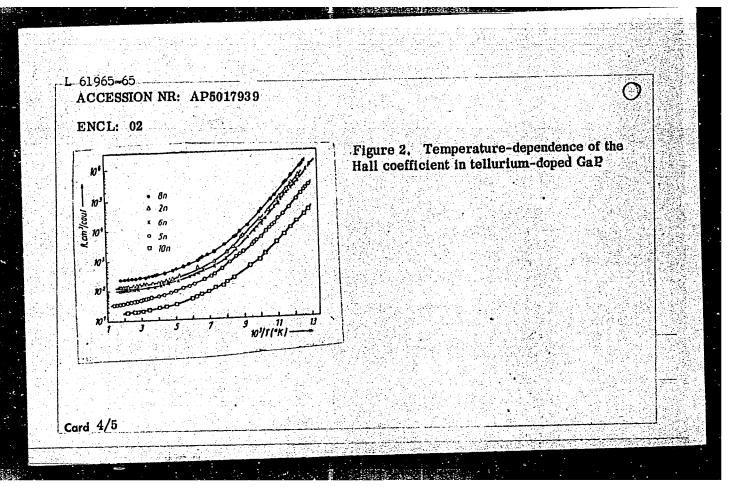
61965-55 EMP(w)/EMG(m)/EMA(d)/T/EMP(t ACCESSION NR: AP5017939 AUTHOR: Nasledov, D. N.; Negreskul, V.)/EWP(b) LJP(c) RDN/JD/JG GE/0030/65/010/001/0037/0043 38 V.; Radautsan, S. I.; Slobodchikov, S. V.
TITLE: The scattering mechanism of curr phosphide	ent carriers of tellurium-doped gallium
SOURCE: Physica status solidi, v. 10, no	. 1, 1965, 37-43 m doped semiconductor, Hall effect, semi- nperature effect, electron mobility, current
ABSTRACT: The Hall coefficient and spe	cific conductivity were determined on single crystals in the 77 - 600K temperature range to
mechanism of carrier scattering. The termine tivity in typical crystals is shown in Figure 20 ence of the Hall coefficient, in Figure 20	crystals in the 77 - 600K temperature of the se values and to gain further insight into the hese values and to gain further insight into the mperature-dependence of the electrical conducted of the Enclosure; the temperature-dependence of the Enclosure. On the basis of the experiment of the Enclosure. The main determining factor of the Enclosure. The main determining factor on optical photons (polar scattering); however,

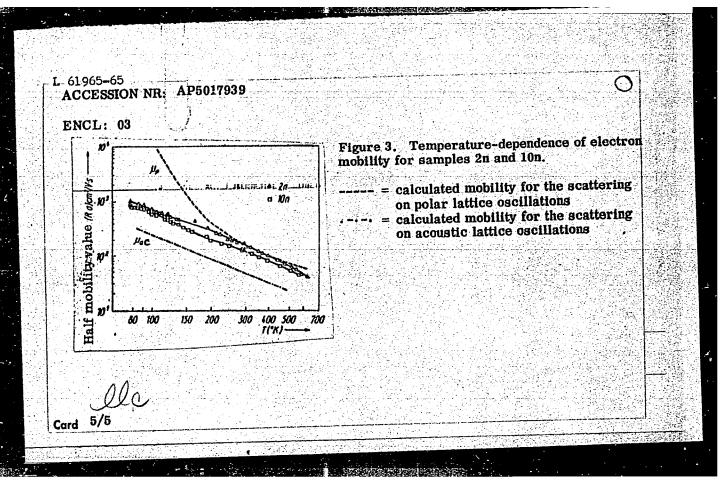
L_61965-65 ACCESSION NR: AP6017939	가다 불리다 경험을 받아 있다.	3
in the low end of the temperat		charge, also become significant. a donor level with an ionization t, has: 4 figures and 7 formulas.
ASSOCIATION: Physikalisch	-Technisches Institut der nd Technology, Academy	of Sciences, SSSN; Institut fur
Angewandte Physik der Akad	f Sciences, Moldavian SS	R); Polytechnisches Institut, Kishi-
new (Polytechnical Institute)		이 사람, 다른 장마는 그가는 사람들이 불어나는 사람들이 살아 다니다.
nev (Polytechnical Institute) SUBMITTED: 17Mar65	ENCL: 03	SUB CODE: SS, EC
nev (Polytechnical Institute)		이 사람, 다른 장마는 그가는 사람들이 불러를 가려면 그런 살아 가를 하나 하다.
nev (Polytechnical Institute) SUBMITTED: 17Mar65	ENCL: 03	이 사람, 다른 장마는 그가는 사람들이 불러를 가려면 그런 살아 가를 하나 하다.
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BYCHKOV, A.G. [Bychkov, O.H]; GCRUMOVA, N.A. [Horiunova, N.O.];

KESAMARLY, F.P.; MITYULEV, V.K. [Mitiur'ov, V.K.]; RUD', Yu.V.;

SLOBODCHIKOV, S.V.

Electric and photoelectric properties of ZnSiP2. Ukr. fiz. zhur. 10 no.8:867-872 Ag 165. (MIRA 18:8)

1. Kiyevskiy pedagogicheskiy institut im. Gor'kogo.

	사용 기계 전 경기 전
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. 2975-66 EWT(1)/EWT(M)T/EW	UR/0109/65/010/009/1707/1709 37
CCESSION NR: AP5022437	UR/0109/65/010/009/1707/1709 37 539.293.011.41
Mics	y y Slobodobikov, S. V. 654
UTHOR: Nasledov, D. N.; Smirr	nova, N. N.; Slobodchikov, S. V.
TMIE. Current-voltage charact	eristics of alloy p-n-junctions in InAs
Tipe: omiono-to-road	10 70 9 1965, 1707-1709
OURCE: Radiotekhnika i elekti	conika, v. 10, no. 9, 1965, 1707-1709
onto TAGS, current voltage cl	naracteristic, pn junction, InAs pn junction
BSTRACT: The carrier concent 1.5 x 10 17/cm ³ ; Zn content in t were taken in the 78—296K characteristic showed two slo structure defects are assumed	ration in the source n-InAs material was 5×10^{16} to he alloy was $0.1-\%$. Current-voltage characteristics range. At $78K$, the forward-current vs voltage pes: $\beta_1 = 1.2-1.3$ and $\beta_2 = 1.8-2.8$. Crystalto be responsible for the high-values of β . At the diffusion current describable by the regular reverse-current vs temperature curve measured dden-band width of 0.48 ev (at $0K$). Orig. art. has:
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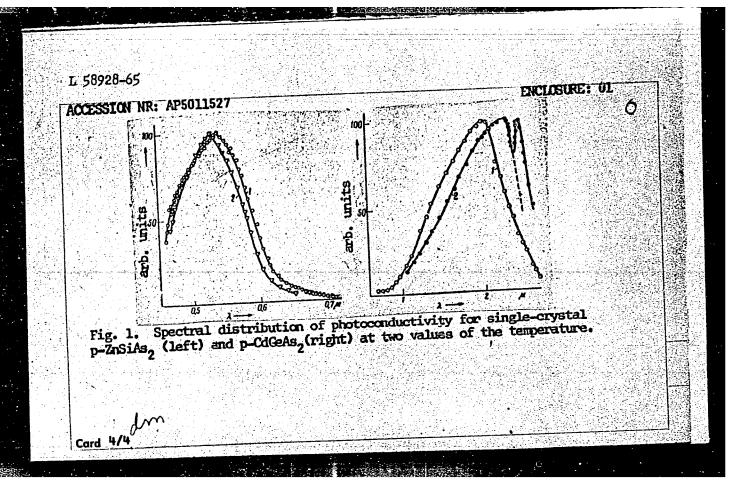
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D/JW	WR: AP5011527 UR/0020/65/161/005/1065/1066 53
AUTHORS:	Kasamanly, F. P.; Rud, Yu. V.; Slobodenikov, S. v. 3
marie:	Photoelectric properties of the crystals p-ZnSiAs and
-CdGeAs	1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、
50urce:	AN SSSR. Doklady, v. 161, no. 5, 1965, 1065-1066
የህወተር ጥልዓይ	photoconductivity, spectral distribution, forbidden band,
activation	energy 4
ABSTRACT:	The authors have previously observed photoconductivity in the authors have previously of the authors are appreciately of the authors have previously observed photoconductivity in the authors have a second phot
	rystals (FTT v. 7, 1324, 1965). The present rystals (FTT v. 7, 1324, 1965). The present rystals of the rotation of the spectral distribution of the rotation of the retrivity and its temperature dependence for crystals of the retrivity and its temperature dependence for crystals of the rational characteristics were obtained with a
same class	type. The spectral characteristics were obtained with a
	type. The spectral characteristics were obtained by the spectral characteristics were obtained as a chromator with various prisms and a tungsten lamp as a source. The apparatus used to measure the photoresponse source.

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was described elsewhere (FTT v. 4, 1227, 1962). The results are shown in Fig. 1 of the Enclosure. They indicate that only the intrin sic photoconductivity, connected with the direct transition of the carriers from the valence band to the conduction band, exists in the investigated temperature interval. The maximum of the photosensitivity corresponds to 2.29 eV at room temperature and 2.33 at 200K. The width of the forbidden band is 2.10 and 2.14 eV, respectively. The activation energy is found to be 0.15 eV. The variation with temperature is due to rise in the Fermi level which decreases the effective number of recombination centers and increases the photoconductivity. In the case of CdGeAs2, the second maximum corresponds to 0.51 eV, whereas the intrinsic photoconductivity maximum occurs at 0.53 and 0.61 eV at room temperature and 80K, respectively. The corresponding gap widths are 0.54 and 0.50 eV. The presence of shallow levels at 0.06 and 0.13 eV, transitions to which give rise to the impurity photoconductivity peak, is deduced from the temperature dependence of the short-circuit current. The authors thank N. A. Goryunova and D. N. Nasledov for interest in the work. This report was presented by V. P. Konstantinov. Original article has: 2 figures 2/4

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AGAYEV, Ya.; GAZAKOV, O.; SLOBODCHIKOV, S.V.

Photoconductivity in p-AlSb. Izv. AN Turk. SSR. Ser. fiz.-tekh. khim. i geol. nauk no.3396-97 '65. (MIRA 18:12)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR.

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ACC NR. AR7000873

SOURCE CODE: UR/0058/66/000/009/E075/E075

AUTHOR: Mamedova, R. F.; Slobodchikov, S. V.

TITLE: Photoelectric properties of n-type GaP

SOURCE: Ref. zh. Fizika, Abs. 9E612

REF SOURCE: Uch. zap. Azerb. un-t. Ser. fiz.-matem. n. no. 4, 1965, 61-66

TOPIC TAGS: photoelectric property, photoconductivity, Hall effect, gallium, gallium phosphide, n type gallium

ARSTRACT: Gallium phosphide monocrystals were used for determining the specific conductivity, Hall effect, spectral distribution and temperature dependence of photoconductivity (PC) in the 80-295K range. The PC maxima of 0.48 µ, 0.7 µ, and 1.2 μ were noted for $\lambda = 0.42$ of light excitation (direct valence-to-conduction-band transition). The constant white illumination of 80K has decreased the PC over the entire spectrum and in particular in the intrinsic PC range and in the vicinity of 0.7 μ , while at 197K, the PC was increased with the exception of 0.6-0.9 μ range. Based on the results of these measurements, the following

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-EWT(m)/T/EWP(w)/EWP(±)/ETI CODE: UR/0181/65/007/006/1912/1915 ACC NR: AP6019401 AUTHOR: Nasledov, D. N.; Negreskul, V. V.; Slobodchikov. 8 ORG: Physicotechnical Institute im. A. F. Toffe, AN SSSR(Fiziko-tekhnicheskiy institut AN SSSR) TITIE: Electrical properties of gallium phosphide alloyed with tellurium Fizika tverdogo tela, v. 7, no. 6, 1965, 1912-1915 TOPIC TAGS: gallium compound, tellurium, Hall effect, temperature dependence, electron mobility, electric property, single crystal ABSTRACT: The preparation of GaP-Te monocrystals is described. The temperature dependence of the Hall effect and the variation of electron mobility with temper-lature are given. $\mathcal{L}_{act} = 7.15 \times 10^8 \text{ T}^{-3/2} \text{ E}_1^2$, where E₁ is the deformation potential which, although not known exactly, was assumed to be 55 eV. Orig. art. has: 2 figures and 5 formulas. [JPRS] 20, 11 / SUBM DATE: 08Feb65 / ORIG REF: 001 / OTH REF: 008 SUB CODE:

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the donor impure to predominate short-wavelengt its variation with the elliphecomes appropriately ap	Hall electron mobility of interpretature the mobility in ities was found to be 0.0 at all investigated temper it in temperature, and the ectric field is linear unciable. At room temper the valence band. The accordenance of the photocond impurity transitions is to Professor D. M. Nasle 5 figures.	08 ev. Intrinsic pheratures. Its maxim emperature. The wid coefficient depende p to fields of 20 v/ature an acceptor letivation energies of emperature dependence functivity have been oproposed. "In concluyedov for support emperature dependence proposed."	otoconductivity was um is shifted to to the forbidde once of the photoconductive has been noted the donor and accept the donor and discussion of the donor and d	the en band, anduct- parent- i at ceptor uctivity. gy level capress he work.
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_	Slobodenikov, b. v.	
	Physics AN MSSR, Kishinev (Institut prikladnoy 1121ki AN MSSR)	
	mrmrre Oscillations of photoconductivity in Gar	
	SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3671-3673	
	TOPIC TAGS: gallium compound, photoconductivity, phonon interaction, energy band structure, carrier density	
	ABSTRACT: This is a continuation of earlier work (FTT v. 6, 1781, 1964) on the photoconductivity spectrum and the band structure of GaP. In the present investigation, the authors studied GaP samples obtained by gas-transport reactions and doped with tellurium, in the	
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